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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/805,611	03/19/2004	John O. Michelini	FGT 223F (81038377)	8589	
36865	7590 06/14/2005		EXAMINER		
ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP			ARGENBRIGHT, TONY MICHAEL		
	BROADWAY, SUITE 600 ND, OR 97205		ART UNIT	PAPER NUMBER	
			3747		
•			DATE MAILED: 06/14/200	DATE MAILED: 06/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/805,611	MICHELINI ET AL.				
Office Action Summary	Examiner	Art Unit				
	T. M. Argenbright	3747				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPORTED MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) dayed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19	May 2005	•				
	is action is non-final.					
3) Since this application is in condition for allow	<u> </u>					
Disposition of Claims						
4)  Claim(s) 22-27 is/are pending in the applicati 4a) Of the above claim(s) is/are withdrest is/are allowed.  5)  Claim(s) is/are allowed.  6)  Claim(s) 22-27 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examination  10)☒ The drawing(s) filed on 19 March 2004 is/are:  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction  11)☐ The oath or declaration is objected to by the Examination is objected to be a considered to be a cons	a)⊠ accepted or b)⊡ objected to e drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bure.  * See the attached detailed Office action for a list	nts have been received.  Ints have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	<u>-</u>					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da					
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>		eatent Application (PTO-152)				

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#### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election without traverse of claims 22-27 in the reply filed on May 19, 2005 is acknowledged.

#### Information Disclosure Statement

The applications listed in the IDS filed September 27, 2004 have been considered.

Patent 4,779,528, listed in the IDS filed March 19, 2004, is not pertinent to the present application and has not been considered.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22, 23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Di Lieto et al. Di Lieto et al discloses disabling an electromechanically actuated valve, column 5, lines 40-49, when degraded performance is indicated by current flow and temperature. Since the valve is rendered inoperative, all cylinder modes are deactivated.

Claims 22 and 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirasawa et al (6,178,934). In column 4, lines 21-39, Hirasawa et al discloses disabling

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an electromagnetically operated engine valve when its position is indicated as abnormal. Since the valve is rendered inoperative, all cylinder modes are deactivated.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Di Lieto et al in view of Friz. Friz teaches determining degraded operation of an electromagnetically operated valve in accordance with voltage drop. It would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Di Lieto et al to determine degraded operation of the electromagnetic valves using voltage drop across the devices, as taught by Friz, since same is an equivalent that would not affect system operation.

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Di Lieto et al in view of Kirsch et al. Kirsch et al teaches determining degraded operation of an electromagnetically operated valve in accordance with impedance. It would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Di Lieto et al to use impedance of the electromagnetic operator, as taught by Kirsch et al, to determine degraded operation of the electromagnetic valves since same is an equivalent that would not affect system operation.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

#### Conclusion

The valve actuating systems made of record and not relied upon are considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. M. Argenbright whose telephone number is 571-272-4837. The examiner can normally be reached M-Th 6:30am-3:00pm and alt. Fridays 6:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen can be reached on 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tr. Augler
T. M. Argenbright
Primary Examiner
Art Unit 3747